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this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 19-0036.

Amendments

In the Claims:

Please cancel claims 29, 47, 67 without prejudice or disclaimer.

Please substitute the following claim

- 28. (once amended) A method for identifying a compound that inhibits the ubiquitination reaction mediated by the Anaphase Promoting Complex (APC), comprising
- (a) reacting APC11, ubiquitin, a ubiquitin activating enzyme (E1), a ubiquitin conjugating enzyme (E2), ATP, and a test compound under conditions and duration of time sufficient to obtain a measurable level of multiubiquitin chains in the absence of said test compound; and
- (b) comparing the level of multiubiquitin chains formed in the presence of said test compound to the level of multiubiquitin chains formed in the absence of said test compound;

wherein said reaction is made in the absence of APC subunits other than APC11.

30. (once amended) The method of claim 28, wherein said APC11 is human.

- 31. (once amended) The method of claim 28, wherein said E1 is wheat UBA1.
- 32. (once amended) The method of claim 28, wherein said E2 is the human variant UBCH5b.
- 33. (once amended) The method of claim 28, wherein the formation of multiubiquitin chains is measured using an antibody.
- 38. (once amended) The method of claim 28, wherein said formation of multiubiquitin chains is measured using fluorescence resonance energy transfer (FRET).
- 39. (once amended) The method of claim 28, wherein one or more assay component selected from the group consisting of APC11, E1, E2 and ubiquitin is fused to an affinity tag.
- 46. (once amended) A method for identifying a compound that inhibits the ubiquitination reaction mediated by the Anaphase Promoting Complex (APC), comprising
- (a) reacting APC11, ubiquitin, an APC substrate, a ubiquitin activating enzyme (E1), a ubiquitin conjugating enzyme (E2), ATP, and a test compound under conditions and duration of time sufficient to obtain a measurable level of multiubiquitin chains on said substrate in the absence of said test compound; and

(b) comparing the level of multiubiquitin chains formed in the presence of said test compound to the level of multiubiquitin chains formed in the absence of said test compound;

wherein said reaction is made in the absence of APC subunits other than APC11.

- 48. (once amended) The method of claim 46, wherein said APC11 is human.
- 49. (once amended) The method of claim 46, wherein said APC substrate is CyclinB.
- 50. (once amended) The method of claim 46, wherein said APC substrate is Securin.
 - 51. (once amended) The method of claim 46, wherein said E1 is wheat UBA1.
- 52. (once amended) The method of claim 46, wherein said E2 is the human variant UBCH5b.
- 53. (once amended) The method of claim 46, wherein the formation of multiubiquitin chains is measured using an antibody.

- 58. (once amended) The method of claim 46, wherein said formation of multiubiquitin chains is measured using fluorescence resonance energy transfer (FRET).
- 59. (once amended) The method of claim 46, wherein one or more assay component selected from the group consisting of APC11, E1, E2 and ubiquitin is a fused to an affinity tag.
- 66. (once amended) A method for identifying a compound that inhibits the selfubiquitination reaction mediated by the Anaphase Promoting Complex (APC), comprising
- (a) reacting APC11, ubiquitin, a ubiquitin activating enzyme (E1), a ubiquitin conjugating enzyme (E2), ATP, and a test compound under conditions and duration of time sufficient to obtain a measurable level of ubiquitination of APC11 in the absence of said test compound; and
- (b) comparing the level of ubiquitination of APC11 in the presence of said test compound to the level of ubiquitination of APC11 in the absence of said test compound.
 - 68. (once amended) The method of claim 66, wherein said APC11 is human.
 - 69. (once amended) The method of claim 66, wherein said E1 is wheat UBA1.

- 70. (once amended) The method of claim 66, wherein said E2 is the human variant UBCH5b.
- 71. (once amended) The method of claim 66, wherein said ubiquitination of APC11 is measured using an antibody.
- 76. (once amended) The method of claim 66, wherein said formation of multiubiquitin chains is measured using fluorescence resonance energy transfer (FRET).
- 77. (once amended) The method of claim 66, wherein one or more assay component selected from the group consisting of APC11, E1, E2 and ubiquitin is a fused to an affinity tag.